



ASPHALT IN FIGURES

2014





ASPHALT IN FIGURES 2014



EAPA is the European industry association which represents the manufacturers of bituminous mixtures, companies engaged in asphalt road construction as well as maintenance and it has the mission to promote the good use of asphalt in the creation and maintenance of a sustainable European road network. Conscious of the importance of providing information to the public, EAPA is pleased to present to you the data of 'Asphalt in Figures' for the year 2014.

*Mr Ayberk Özcan
President EAPA*

EUROPEAN ASPHALT
PAVEMENT ASSOCIATION





KEY FIGURES OF THE EUROPEAN ASPHALT INDUSTRY IN 2014

In this overview, between a number of European countries, data refer to asphalt production, application and the use of binders. Furthermore several reference data on the road in general are given. The data have been established with the assistance of the members of the European Asphalt Pavement Association, and are at the moment the best available and reliable for the asphalt industry.

A blank or 'no data' means no data are supplied or available, "...*"figure not provided but estimated. All mass figures are in metric tonnes. EU-28 means all member states of the European Union (EU) except Cyprus, Bulgaria and Malta.

TOTAL PRODUCTION

TOTAL PRODUCTION OF HOT AND WARM MIX ASPHALT IN 2008 - 2014
(in million tonnes)

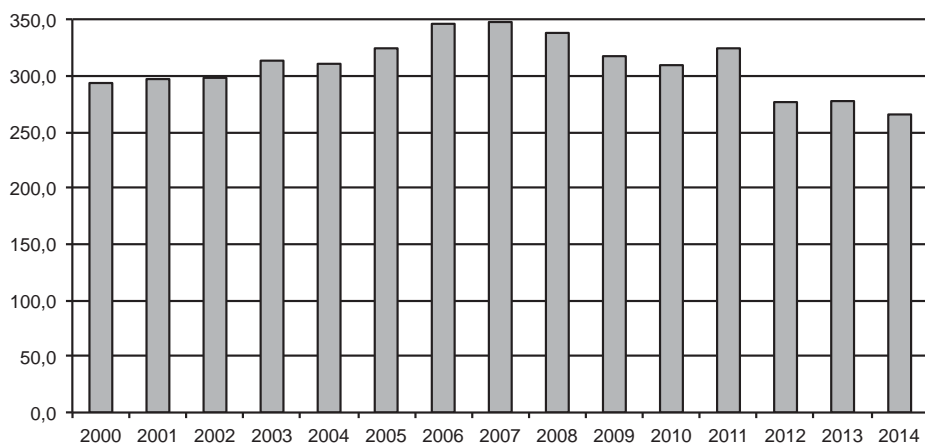
Country	2008	2009	2010	2011	2012	2013	2014
Austria	9,5	9,0	8,2	8,0	7,2	7,0	7,2
Belgium	4,9	4,7	4,8	5,9	5,6	5,3	5,2
Croatia	4,2	3,2	2,7	2,6	2,5	2,8	2,3
Czech Republic	7,3	7,0	6,2	5,8	5,6	5,4	6,4
Denmark	3,1	2,7	3,2	4,0	3,6	3,7	3,7
Estonia	1,5	1,2	1,1	1,3	1,1	1,2	1,3
Finland	6,0	5,2	4,9	5,0	4,5	4,5	4,7
France	41,8	40,1	38,8	39,2	35,3	35,4	31,9
Germany	51,0	55,0	45,0	50	41	41,0	39,0
Great Britain	25,0	20,5	21,5	22,4	18,5	19,2	20,6
Greece	8,1	8,7	5,2	2,3	1,6	2,7	2,7*
Hungary	2,5	1,6	3,4	2,3	2,5	2,7	3,8
Iceland	0,4	0,3	0,2	0,2	0,2	0,2	0,3
Ireland	2,8	3,3	2,3	1,8	1,9	1,8	1,8
Italy	36,5	34,9	29,0	28	23,2	22,3	22,3*
Latvia	0,6*	0,6*	0,6*	0,6*	0,6*	0,6*	0,6*
Lithuania	2,2	1,5	1,6	1,6	1,3	1,3*	1,3*
Luxembourg	0,6*	0,6	0,7	0,65	0,61	0,7	0,7*
Netherlands	9,3	9,8	9,5	9,6	9,2	9,7	9,0
Norway	5,7	6,5	5,9	6,7	6,3	6,4	7,0
Poland	15,0	18,0	18,0	26,5	21,1	18,2	18,2*
Portugal	9,0*	9,0*	6,7	6,4	6,4*	6,4*	6,4*
Romania	3,3	3,6	3,2	3,6	3,2	4,1	4,5
Serbia							1,3
Slovakia	2,2*	2,2	1,9	2,2	1,9	1,6	1,5
Slovenia	2,6	2,3	1,8	1,3	1,1	1,2	1,4
Spain	42,3	39,0	34,4	29,3	19,5	13,2	14,5
Sweden	8,7	8,1	7,9	8,1	7,7	7,6	8,5
Switzerland	5,3	5,4	5,3	5,4	4,8	4,8	6,5
Turkey	26,6	23,1	35,3	43,5	38,4	46,2	30,9

EU-28	300,0	291,6	262,6	268,5	226,7	219,7	219,4
Europe	338,0	326,9	309,3	324,3	276,4	277,3	265,4

Australia	9,5	9,5*	7,5		8,8		9,1
New Zealand					1,0	1,0	
Japan	49,6	49,6	44,7	45,6	47,3	49,9	45,0
Ontario - Canada	13,2*	13,2*	14	13,5	13,0		13,8
USA	440	324	326	332	326,9	318,1	319,0
South Africa				5,7	5,7	5,5	5,4
South Korea		35,6	20,7		23,2	26,2	

GRAPH TOTAL PRODUCTION

TOTAL PRODUCTION OF HOT AND WARM MIX ASPHALT IN EUROPE
(in million tonnes)



SURFACE, BINDER AND BASE COURSE

APPLICATION IN SURFACE-, BINDER- AND BASE COURSES IN % OF TOTAL ANNUAL HOT AND WARM MIX PRODUCTION

Country	Surface course	Binder course	Base course
Austria	30	10	60
Belgium	51	0	49
Croatia	61	2	33
Czech Republic	57	20	23
Denmark	47	8	45
Estonia	66	27	7
Finland	90	0	10
France	No data	No data	No data
Germany	30	19	51
Great Britain	No data	No data	No data
Greece	87	10	3
Hungary	66	19	15
Iceland	95	5	0
Ireland	No data	No data	No data
Luxembourg	35	60	5
Netherlands	35	10	55
Norway	80	10	10
Romania	21	33	46
Serbia	35	0	65
Slovakia	60	24	16
Slovenia	58	3	39
Spain	66	22	12
Sweden	55	25	20
Switzerland	25	10	65
Turkey	34	30	36

Japan	81	12	7
Ontario - Canada	55	10	35
South Africa	No data	No data	No data

COMPANIES

COMPANIES IN THE ASPHALT INDUSTRY IN 2014

Country	Production only	Production & Laying	Laying only
Austria	No data	67	No data
Belgium	12	20	No data
Croatia	6	30	10
Czech Republic	22	29	>40
Denmark	0	6	-10
Estonia	1	6	11
Finland	0	10	15
France	0	30	1415
Germany	260	150	3000
Great Britain	19	24	>100
Greece	No data	200*	3*
Hungary	1	31	25
Iceland	1	4	10
Ireland	18	18	22
Italy	30*	500*	>2500*
Lithuania	No data	20*	No data
Luxembourg	No data	4	0
Netherlands	No data	20	No data
Norway	7	12	No data
Poland	4*	260*	155*
Portugal	10*	16*	60*
Romania	12	16	8
Serbia	33	33	33
Slovakia	2	14	20
Slovenia	14	13	50
Spain	7	134	220
Sweden	0	11	80
Switzerland	40	40	>400
Turkey	11	257	-100

EU-28	> 418	> 1629	> 7.744
Europe	> 510	> 1975	> 8.287

Japan	No data	717	No data
Ontario-Canada	No data	49	100
South Africa	8	9	18

SURFACE COURSES

SURFACE COURSES WITH ASPHALT CONCRETE EN 13108-1

Country	% of total annual hot & warm mix asphalt production in 2014	In 2014 applied area in million m2
Austria	28,4	No data
Belgium	32,0	No data
Croatia	56,0	12,7
Czech Republic	50,6	21,0
Denmark	32,0	16,3
Estonia	58,6	No data
Finland	74,0	No data
France	No data	No data
Germany	19,0	No data
Hungary	62,0	19,2
Iceland	94,0	1,3
Luxembourg	17,0	1,2
Netherlands	16,0	No data
Norway	64,0	0,9
Romania	12,5	4,3
Serbia	75,0	2,6
Slovakia	57,0	6,7
Slovenia	54,0	13,0
Spain	52,0	No data
Sweden	25,0	30,0
Switzerland	19,0	12,8
Turkey	31,5	No data

Japan	No data	51,7
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SURFACE COURSES WITH STONE MASTIC ASPHALT EN 13108-5

Country	% of total annual hot & warm mix asphalt production in 2014	In 2014 applied area in million m2
Austria	1,5	No data
Belgium	13,3	8,3
Croatia	4,0	1,0
Czech Republic	5,2	3,1
Denmark	15,0	6,9
Estonia	7,1	No data
Finland	13,0	No data
France	No data	No data
Germany	10,0	No data
Hungary	3,7	3,1
Iceland	6,0	0,1
Luxembourg	15,5	1,1
Netherlands	10,0	No data
Norway	8,0	0,1
Romania	5,0	1,8
Serbia	25,0	0,9
Slovakia	3,0	0,5
Slovenia	3,5	6,8
Spain	0,3	No data
Sweden	25,0	28,0
Switzerland	2,0	1,8
Turkey	2,5	No data

Japan	No data	0,8
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SURFACE COURSES WITH BBTM EN 13108-2

Country	% of total annual hot & warm mix asphalt production in 2014	In 2014 applied area in million m2
Belgium	2,5	1,77
Croatia	1,0	0,30
Czech Republic	0,4	0,60
France	No data	No data
Hungary	0,2	0,10
Romania	3,5	5,00
Spain	4,3	No data

Japan	No data	0,02
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SURFACE COURSES WITH SOFT ASPHALT EN 13108-3

Country	% of total annual hot & warm mix asphalt production in 2014	In 2014 applied area in million m2
Finland	2,5	No data
Norway	8,0	0,1
Sweden	5,0	5,0

SURFACE COURSES WITH HOT ROLLED ASPHALT EN 13108-4

Country	% of total annual hot & warm mix asphalt production in 2014	In 2014 applied area in million m2
Switzerland	0,5	0,3

Japan	No data	0,01
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SURFACE COURSES WITH POROUS ASPHALT EN13108-7

Country	% of total annual hot & warm mix asphalt production in 2014	In 2014 applied area in million m2
Belgium	0,50	0,31
Czech Republic	0,10	0,10
Denmark	0,26	0,20
Estonia	0,04	No data
France	No data	No data
Germany	No data	No data
Luxembourg	0,50	0,015
Netherlands	9,00	No data
Slovenia	0,50	0,10
Spain	0,03	No data
Sweden	No data	0,50
Switzerland	1,50	1,01

Japan	3,00	5,97
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SURFACE COURSES WITH MASTIC ASPHALT EN13108-6

Country	% of total annual hot & warm mix asphalt production in 2014	In 2014 applied area in million m2
Austria	0,10	No data
Belgium	0,50	No data
Czech Republic	0,70	0,30
Estonia	0,01	No data
Finland	0,50	No data
France	0,06	3,8
Germany	1,00	No data
Hungary	0,10	0,07
Serbia	5,0	0,20
Slovenia	0,03	No data
Sweden	No data	1,00
Switzerland	2,0	1,40
Japan	No data	0,35

WARM MIX ASPHALT (WMA)

PRODUCTION OF WARM MIX ASPHALT IN 2013 AND 2014 (100-150 °C)

For this table Warm Mix Asphalt is defined as mixtures produced by using special techniques and/or additives to reduce the production temperature. The production temperature is between 100°C and 150°C.

Country	2013 (million tonnes)	2014 (million tonnes)
Austria	0,000	0,000
Belgium	No data	No data
Croatia	0,000	0,040
Czech Republic	0,030	0,001
Denmark	0,120	0,200
Finland	0,000	0,120
France	3,550	4,023
Germany	No data	No data
Great Britain	<1,000	<1,000
Hungary	0,020	0,038
Luxembourg	0,000	0,007
Netherlands	0,060	0,133
Norway	0,380	0,540
Slovenia	0,000	0,000
Spain	0,086	0,140
Sweden	0,500	0,700
Switzerland	0,870	0,388

USA	69,000	103,000
Japan	0,152	0,231
Ontario-Canada	No Data	0,750
South Africa	0,150	0,150



ASPHALT IN FIGURES 2014

HALF WARM MIX, COLD BITUMINOUS MIXTURES AND SURFACE APPLICATIONS

HALF WARM MIX ASPHALT
(50-100°C)

COLD BITUMINOUS MIXTURES (BELOW 50°C)

APPLICATION OF SLURRY SEAL (SS) & MICRO-SURFACING (MS) / SURFACE DRESSING (SD)

Country	2014 (million tonnes)
France	No data
Hungary	0,030
Spain	0,005
Sweden	0,400
Switzerland	0,013

Country	2011 (tonnes)	2012 (tonnes)	2013 (tonnes)	2014 (tonnes)
Austria	20.000	20.000	30.000	No data
Belgium	33.000	27.000	30.000	No data
Croatia	21.000	23.000	32.000	
Czech Republic	9.907	4.421	9.570	4.000
France	1.600.000	1.460.000	1.550.000	1.418.000
Germany				No data
Great Britain				No data
Hungary	40.000	15.400	58.800	40.000
Iceland	No data			10.000
Ireland	No data			
Luxembourg	0	2.000	10.000	No data
Netherlands		20.000	0	
Norway	37.000	6.000	20.000	30.000
Romania	13.000	2.000	2.625	No data
Slovakia	3.000	0		0
Slovenia			26.000	
Spain	200.000	92.400	86.700	150.000
Sweden	60.000	90.000	90.000	100.000
Switzerland	740.000	710.000	830.000	25.000
Turkey	1.020.000	1.818.000	1.050.000	938.000

Japan	95.000	105.000	114.000	124.000
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Country	SS&MS 2014	Trend '13/'14	SD 2014
Austria	No data	=	No data
Croatia	0,70	No data	0,00
Czech Republic	0,90	< less	1,80
Denmark	0,00	=	6,70
Estonia	0,00	<	12,70
Finland	No data	=	0,79
France	51,00	>	197,00
Germany	No data	No data	No data
Great Britain	No data	No data	No data
Hungary	0,00	No data	0,00
Iceland	0,10	=	2,00
Ireland	No data	No data	No data
Luxembourg	0,03	=	0,30
Norway	No data	No data	No data
Romania	No data	No data	No data
Slovakia	0,60	<	0,00
Slovenia	0,01	No data	0,01
Spain	19,30	=	2,30
Sweden	0,50	<	14,00
Switzerland	1,00	>	No data
Turkey	0,10	<	203,80

Japan	0,00	No data	0,00
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REUSE AND RECYCLING

RECYCLING IN 2014

Country	All available Reclaimed Asphalt in 2014	% of available reclaimed asphalt used in							Applied area in m ² of hot reuse of existing asphalt pavement material in-situ / on the road (Remixing, Repaving, Reshaping, Road Train etc.)	The amount of "only" reheated (reused) asphalt material in-situ / on the road (Remixing, Repaving, Reshaping, Road Train etc.) in metric tonnes
		Hot Mix Asphalt Production	Warm Mix Asphalt Production	Half Warm Mix Asphalt Production	Cold Recycling**	Unbound Road Layers	Other Civil Engineering Applications	Put to Landfill / Other Applications / Unknown		
Austria	1.500.000	No data	No data	No data	No data	No data	No data	No data	No data	
Belgium	1.500.000	72	No data	No data	No data	No data	No data	No data	No data	
Czech Republic	1.600.000	16	0	0	30	20	10	24	178.400	
Croatia	170.000	24	5	No data	19	10	No data	No data		
Denmark	-1.300.000	54	0	0	0	11	0	35		
Estonia	No data	No data	No data	No data	No data	No data	No data	No data		
Finland	1.000.000	100	0	0	0	0	0	0	9.243.000	
France	7.000.000	64	No data	No data	No data	No data	No data	No data	637.450	114.700
Germany	10.900.000	90	0	0	0	10	0	0		
Great Britain	3.350.000	52	18	0	5	0	25	0		
Hungary	20.000	80	10	0	0	10	0	0		
Iceland	15.000	No data	No data	No data	No data	No data	No data	No data	60.000	
Ireland	No data	No data	No data	No data	No data	No data	No data	No data		
Luxembourg	285.000	85	5	0	10	0	0	0		
Netherlands	4.500.000	67	3	0	15	0	0	15		
Norway	837.410	20	0	0	3	64	9	4		
Romania	20.000	40	0	25	25	5	5	0		
Slovakia	30.000	98	0	0	1	1	0	0	60.000	7.500
Slovenia	40.000	25	0	0	0	75	0	0		
Spain	390.000	95	2	3	0	0	0	0		
Sweden	1.200.000	75	5	5	5	10	0	0	4.000.000	320.000
Switzerland	1.000.000	52	10	1	2	33	0	2	0	0
Turkey	2.340.000	6	0	0	0	94	0	0		
Japan	No data	No data	No data	No data	No data	No data	No data	No data		
U.S.A.	68.700.000	95	No data	No data	No data	No data	No data	No data		
Ontario-Canada	2.800.000	95	No data	No data	No data	No data	No data	No data		

** Cold recycling includes stabilisation with bitumen emulsion, foamed bitumen and/or cement.

BITUMEN

CONSUMPTION OF BITUMEN
IN THE ROAD INDUSTRY
(in million tonnes)

Country	Tonnage in 2014	% Modified bitumen (of total)				Emulsions in 2014
		in 2011	in 2012	in 2013	in 2014	
Austria	0,37	25,0	25,0	30,0	18,9	0,005
Belgium	0,21	25,5	27,0	25,4	26,5	No data
Croatia	0,13	No data	No data	No data	10,00	No data
Czech Republic	0,33	18,0	22,4	22,1	21,5	0,008
Denmark	0,19	5,0	5,0	5,0	5,0	0,020
Estonia	0,08	No data	No data	4,0	3,3	0,016
Finland	0,27	0	No data	0	0	0,001
France	2,47	<10	13,0	13,0	6,9	0,792
Germany	1,60	No data	No data	No data	No data	No data
Great Britain	1,28	8,0	8,0	8,0	8,0	0,100
Greece		2,0	1,5	2,2		
Hungary	0,19	11,0	15,4	30,0	25,0	0,0
Iceland	No data	No data	No data	No data	0,0	0,0
Ireland	0,13	No data	No data	No data	No data	0,0
Italy		14,0	13,0	14,0		
Lithuania		14,0	11,0			
Luxembourg	0,05	20,0	30,0	No data	15,0	No data
Netherlands	0,30	No data	No data	5,0	No data	No data
Norway	0,35	15,0	No data	No data	No data	No data
Poland		21,0	22,0	25,0		
Romania	0,20	74,0	45,0	76,0	75,0	0,0
Serbia	0,26	14,7	6,0	4,2	4,4	No data
Slovakia	0,08	60,0	37,0	31,0	29,1	0,0
Slovenia	0,07	10,0	11,0	9,0	10,0	No data
Spain	0,56	13,1	19,6	10,0	15,0	0,1
Sweden	0,45	6,0	5,0	No data	7,0	0,0
Switzerland	0,28	10,0	11,0	2,0	12,0	0,0
Turkey	2,39	8,0	7,5	4,4	3,2	0,026

PRODUCTION SITES

NUMBER OF
PRODUCTION SITES

Country	Stationary Plants			Mobile plants			All plants that are fit for hot and warm recycling****		
	2012	2013	2014	2012	2013	2014	2012	2013	2014
Austria	112	113	114	1	1		80*	75	90
Belgium	38	38	58	0	0	0	28	28	28
Croatia	52	55	55	3	3	2	5	6	10
Czech Republic	105	101	101	2	2	2	70	70	70
Denmark	40	38	38	3			38	36	36
Estonia	10	9	9	13	11	10	11	13	13
Finland	52	59	50	20	22	23	55	62	62
France **	438	434	430	67	62	57	> 300	> 300	> 300
Germany	635	630	615	No data	No data	No data	610	605	600
Great Britain ***	250	240	245	No data	No data	No data	No data	No data	130
Greece ***	155	195	195*	5	3	3*	1	1	1*
Hungary	84	85	87	5	5	6	40	42	48
Iceland ***	4	4	4	4	4	4	2	2	2
Ireland	37	37	37	No data	0	No data	3	2	No data
Italy	640	640	640*	10	10	10*	300	300	300*
Lithuania	38	38*	38*	3	3*	3*	24	24*	24*
Luxembourg	4	4	4	0	0	0	2	4	4
Netherlands	41	41	38	1	0	2	40	40	38
Norway	85	85	85	10	10	10	25	40	3
Poland	300	300	300*	35	35	35*	4	4	4*
Portugal	25*	25*	25*	25*	25*	25*	15*	15*	15*
Romania	8	49	50	2	9	10	8	8	10
Serbia			31			2			15
Slovakia	54	51	46	0	0	0	22	No data	32
Slovenia	13	18	16	1	1	No data	8	8	No data
Spain	295	243	243	80	75	75	87	37	16
Sweden	87	87	87	10	8	8	80	90	90
Switzerland	142	147	142	2	2	5	78	83	80
Turkey ***	225	176	104	437	462	449	10	10	12

EU-28	3.513	3.530	3.521	286	275	271	> 1751	> 1770	> 1921
Europe	3.969	3.942	3.887	739	753	741	> 1946	> 1905	> 2033

Australia***	137			32					
Japan	1.160	1.146	1.149	5	4	11	979	974	977
New Zealand	50	50		6	6				
Ontario - Canada	140	No data	114	22	No data	5	135	No data	100
South Africa	28	33	29	23	25	24	32	31	34
South Korea	471								

Japan	1,65	22,1	28,6	20,8	22,8	0,1
Ontario-Canada	0,70	25,0	10,0	No data	15,0	0,0
South Africa	0,40	No data	No data	No data	No data	No data

- ** One or more plants are operated and owned by the road administration
- *** One or more plants are operated and owned by the road administration and/or municipalities
- **** This can be all types, e.g. batch plants and/or drum mixer plants and/or plants with parallel drum.



INTERESTING SITES ON THE INTERNET

www.eapa.org	European Asphalt Pavement Association
www.sdruzeni-silnice.cz	Road Contractors Association Prague
www.asfaltindustrien.dk	Danish Asphalt Pavement Association
www.vbwafalt.nl	Dutch Asphalt Pavement Association
www.asfaldiliit.ee	Estonian Asphalt Pavement Association
www.infrary.fi	Infra Contractors' Association
www.usirf.com	L'Union des Syndicats de l'industrie Routière Française
www.asphalt.de	German Asphalt Association
www.gestrata.at	Gestrata
www.hapa.hu	Hungarian Asphalt Pavement Association
www.siteb.it	Italian Asphalt Association
www.ebanett.no	EBA - Norwegian Contractors Association
www.pswana.pl	Polish Asphalt Pavement Association
www.apdp.ro	Professional Association of Roads and Bridges of Romania
www.mischgut-industrie.ch	Schweizerische Mischgut-Industrie
www.saav.sk	Slovakian Asphalt Pavement Association
www.zdruzenje-zas.si	Slovenian Asphalt Pavement Association
www.asefma.es	Spanish Asphalt Association
www.asmud.org.tr	Turkish Asphalt Contractors Association
www.mineralsproducts.org	UK Minerals Products Association
www.amaac.org.mx	Asociacion Mexicana del Asfaltto,A.C
www.malbik.is	Hofdi Asphalt Plant
www.colas.is	Colas Iceland
www.vegagerdin.is	Icelandic Road Administration
www.pch.public.lu	L'administration des Ponts et Chaussées Luxembourg
www.eurobitume.eu	European Bitumen Association
www.oecd.org/cem	World Economic Organisation
www.piarc.org/en	World Road Congress
www.lra.lt	Lithuanian Road Administration
www.h-a-d.hr	Croatian Asphalt Association
www.asphaltpavement.org	US National Asphalt Pavement Association
www.aapa.asn.au	Australian Asphalt Pavement Association
www.ohmpa.org	Ontario Hot Mix Producers Association
www.sabita.org	South African Asphalt and Bitumen Association
www.dohkenkyo.or.jp	Japan Road Contractors Association
www.civilcontractors.co.nz	Civil Contractors New Zealand Inc.
www.highway.rs	Highway Institute Serbia



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 asefma Asefma	 Asfaltindustrien Asfaltindustrien	 ASMUD - Turkish Asphalt Contractors Association ASMUD - Turkish Asphalt Contractors Association	 asphalt DAV - Deutscher Asphalt Verband e.V.
 EBA EBA	 Eesti Asfaldiliit Eesti Asfaldiliit	 HAPA - Hungarian Asphalt Pavement Association HAPA - Hungarian Asphalt Pavement Association	 IAPA - Irish Asphalt Pavement Association IAPA - Irish Asphalt Pavement Association
 INFRA Infra Contractors' Association	 mpa MPA - Mineral Products Association	 NCC AB NCC AB	 PAPA PAPA - Polish Asphalt Pavement Association
 PEAB Peab Asphalt AB	 Sdruzeni pro vystavby silnic Praha Sdruzeni pro vystavby silnic Praha	 USIRF - Routes de France USIRF - Routes de France	 ZAS ZAS - Združenje asfaltnih Slovenije

 ABZ-1 ABZ-1	 AMMANN Ammann Group	 Antico Antigo International Inc.	 Arizona Chemical Arizona Chemical	 ASTEC ASTEC
 Benninghoven Benninghoven	 BTC BTC Europe GmbH	 CATERPILLAR Caterpillar Paving Products Inc.	 CRH CRH plc.	 DU PONT DuPont CZ s.r.o.
 genan Genan	 Honeywell Honeywell	 ICL Performance Products LP ICL Performance Products LP	 infraTest infraTest	 IRS J. Rettenmaier & Söhne GmbH & Co
 Kraton Kraton Polymers Nederland B.V.	 MARINI Marini	 MWV MeadWestvaco	 PQ Corporation PQ Corporation	 ruthmann Ruthman
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